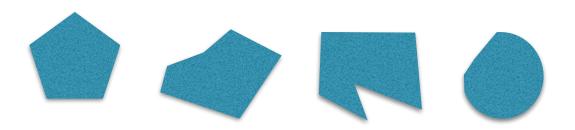
## Science 7 - Unit D

1.	Refers to a structure's capacity to hold its position even if force is acting on it.
b. c.	Structural Force Structural Balance Structural Stability Structural Strength
2.	Refers to the pleasing appearance or effect that an object has because its design
b. c.	Beauty Look Aesthetic Functionality
3.	A is a push or pull that tends to cause an object to change movement or shape
b. c.	Newton Torsion Arch Force
4.	Any object that provides support is called a?
b. c.	Beam Structure Bridge Compression
5.	The standard unit for measuring force is the?
b. c.	Force Kg Newton Horsepower
6.	The amount of matter in an object is referred to as it's?
C.	Girth Weight Mass Heaviness
7.	Snow on a roof is an example of a load.

<ul><li>a. Heavy</li><li>b. Static</li><li>c. Dynamic</li></ul>
d. Symmetric
8. A roof on top of a house is an example of a load.
a. Heavy b. Static
c. Dynamic d. Symmetric
9. When one part of a structure exerts on other parts of the same structure this is called .
a. External Force b. Static Load c. Dynamic Load
d. Internal Force
10. The three internal forces are:
<del>-</del>
-
-
11. Force can be divided into the following three categories:
-
-
-
12. The three types of structures are:
-
-
<del>-</del>
13. Where a force is applied to on an object is defined as
<ul><li>14. Man that building is ugly, one could say it has poor</li><li>15. Results when a structure can no longer stand up to forces acting on it.</li></ul>

- a. Structural Failure
- b. Structural Fatigue
- c. Structural Stress
- d. Structural Support
- 16. Results when internal and external force are applied to a structure which can weaken it
- a. Structural Failure
- b. Structural Fatigue
- c. Structural Stress
- d. Structural Support
- 17. When different kinds of internal forces act on a structure at the same time they are called
- a. Internal Forces
- b. External Forces
- c. Complimentary Forces
- d. Cooperating Forces
- 18. Circle the diagram that best illustrates **symmetry**:



18. Why do structures that serve the same function often have such different designs? (3 Marks)

19. What four different types of bridges can be used to support a load? (4 Marks)